

John B. Rice, Jr.
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Professional History

March 2004 – Present: Research Director, Friends of the Teton River, Driggs, Idaho. Managing, conducting and report writing related to a range of projects, including:

- A 2004-2005 groundwater-aquifer recharge project;
- An ongoing, basin-wide water quality monitoring program at sites in both Idaho and Wyoming;
- A 2005 basin-wide project in both Idaho and Wyoming involving the mapping and characterization of barriers to fish passage;
- A 2005-2006 contract with the Idaho Dept. of Water Resources to serve as assistant Watermaster, which included a basin-wide characterization of irrigation diversions, installing diversion-canal water-measuring devices, conducting flow measurements, and developing stage-discharge relationships;
- Grant writing and fundraising;
- Interfacing with landowners, irrigators and a variety of agencies, non-profits, and other stakeholders on projects related to conservation of native Yellowstone Cutthroat Trout;
- An on-going effort with an irrigation company on efforts aimed at flow restoration and the removal of barriers to fish passage on Trail Creek.

Jan. 2001 – Dec. 2003: Land Conservation Officer, Piedmont Environmental Council. Promoted the donation of Conservation Easements by private landowners in several Virginia counties. Highlights included:

- More than doubled the acreage and number of easements in Madison County, and facilitated numerous easements in Rappahannock, Page, Warren, and Clark Counties, Virginia. Drafted easements and worked on all facets of easement donations with a wide range of landowners;
- Manager of the Hughes River Project, a watershed-based land conservation and river protection effort partially funded by the National Fish and Wildlife Foundation. Conducted riparian-buffer and stream-bank condition mapping to prioritize stream segments for restoration. Organized watershed landowners to promote conservation. Wrote a conservation plan on all facets of the watershed, including hydrology, geology, topography, vegetation, wildlife, demographics, political landscape, and conservation priorities/goals/strategies;
- Manager of the Werner Krebs Rappahannock County Conservation Fund, a revolving fund for land conservation.

1992 – 2000: Principal/part-owner, consulting-group manager, and senior hydrogeologist with ENSAT Corporation, an environmental consulting and construction company based in Virginia. Areas of expertise and selected project work included:

- Managed, performed, and/or assisted with over 100 groundwater resource development projects in Virginia and Maryland for industry, private water companies, municipalities, schools and golf courses. Projects included watershed basin analysis and available water projections, fracture-trace/lineament analysis using aerial photograph analysis and photogeologic mapping, geophysical surveys, well siting/drilling/development for maximum yields, aquifer testing, well-field design and management planning, state appropriations permitting, and providing testimony assistance at hearings.
- Completed a comprehensive wellhead-protection zone and threats mapping and evaluation project for all of the municipal water supply systems in Shenandoah County, Virginia. This project, which was complicated by karst geology, won an award from EPA for its technical quality and innovative approach.
- Completed a county-wide hydrogeologic evaluation of Albemarle County, Virginia, primarily focused on defining the spatial occurrence of conditions affecting the availability of groundwater in the fractured rock aquifers present in the county. Subsequent phases of the project included the development of hydrogeologic testing protocols for a revised subdivision ordinance in the county.
- Managed and performed numerous subsurface contaminant investigations and remedial feasibility evaluations, remedial pilot tests, and remedial system design and construction projects throughout the U.S. for a variety of commercial, industrial, and governmental clients. Completed a notable site investigation and remedial system design and construction project in Desert Springs, California for a national client, where gasoline contaminants had impacted a major water-supply aquifer.

1991 – 1992: Senior Project Manager, R.E. Wright Associates (now SAIC), Westminster, Maryland. Managed and conducted project work similar to that outlined above, chiefly involving:

- Groundwater resource evaluation, development and permitting.
- Subsurface investigation and remediation.

1987 – 1991: Staff Geologist initially, promoted to Project Manager, ATEC Associates, Columbia, Maryland. Duties and work included:

- Subsurface soil boring and monitoring well installations, sampled soil and groundwater, conducted Phase I, II and III environmental assessments.
- Managed numerous environmental property-transaction assessments throughout the U.S. A notable project involved short-time frame environmental assessments of a single real estate portfolio containing 140 separate commercial and industrial properties located in multiple states; assessments included site operations procedures, subsurface, wetlands, asbestos, and radon evaluations.
- Subsurface (in tunnel) geologic mapping during active tunnel construction associated with the Washington D.C. metro system. Projected potentially problematic geologic discontinuities during tunnel advancement.

- Completed a large site investigation and remedial system design and construction project in Cedar Falls, Iowa, where gasoline contaminants had impacted a major water-supply aquifer.

1984 – 1987: Graduate Student; Utah State University; professional work included:

- Geologic hazards evaluations including mapping, evaluation, and dating of landslides and glacial deposits in a 270,000 acre area of the Bridger Teton National Forest in western Wyoming, under contract with the USFS. Used aerial photographs and field surveying to produce detailed maps. This work became my Masters Thesis. Worked with the Forest Service to show that much of the logging in the area was occurring on widespread landslide terrain.
- Assisted with trench studies (soils mapping) of active faults in northern Utah for earthquake hazard evaluation.

1983 – 1984: Geologist and Quality Control Inspector for Virginia Electric Power Company (now Dominion Resources) on the construction of the largest earth and rock-fill dam east of the Mississippi River (Bath County Pumped Storage Project, located in western Virginia). Duties included:

- Inspection and engineering geologic evaluations of structural fill placement.
- Inspection of bedrock abutment conditions prior to fill placement.
- Inspection and documentation of a subsurface drilling and grouting program from both ground-surface and drainage-tunnel locations; program was designed to establish a grout curtain in the bedrock to prevent seepage around the dam.

1982: Contract Geologist/Field Technician on a minerals exploration project for North American Exploration, Inc., northern Maine. Duties included:

- Geophysical surveying, soil and stream sediment sampling, geologic mapping.

Education

BS, Geology, James Madison University, Harrisonburg, VA, 1982

MS, Geology, Utah State University, Logan, Utah, 1987; emphasis on engineering and environmental geology; applied geomorphology, and hydrogeology.

Non-Profit Board and Committee Positions

Scenic 340 Project, board member from 2000 to 2003, presently an advisory board member: Provided geological, hydrological, and historical expertise to the group, which was organized to oppose the 4-laning of Highway 340 through the Page Valley, Virginia, and to promote the scenic and recreational values of the valley. Assisted with the application process associated with formal designation of the Milford Battlefield area as a new Battlefield Historic District on the National Historic Register.

Shenandoah River Watershed Regional Water Resources Policy Committee, 2003: Worked on a subcommittee to design a study and select a consultant to assist with a comprehensive water resources evaluation of the Shenandoah River watershed.

National Parks Mid Atlantic Council, representative for Shenandoah National Park, 2001 to 2003, and Cedar Creek Battlefield National Historical Park, 2003: Represented the parks at council meetings, reported on issues of concern, participated in lobbying efforts on Capitol Hill.

Virginia Wilderness Committee, officer, 1999 to 2003: Worked to establish goals and priorities for protection of roadless lands; assisted with initial outreach efforts aimed at the mountain bike and hunting communities in an effort to build support for new Wilderness areas designations.

Virginia Dept. of Game and Inland Fisheries Black Bear Management Plan, Hunting Community Focus Group member, 2000 to 2001: Participated in group meetings and assisted with management plan development and review.

Publications

The Civil War Battles at Overall, Virginia: A Military History of the Milford Battlefield. 2004, John B. Rice, Jr., published by the Scenic 340 Project, Bentonville, Va; 52 pages. (Book was instrumental in documenting the battles and supporting the successful application of the battlefield area as a new Battlefield Historic District)

Rice Jr., J.B., 1998, Constant Drawdown Aquifer Tests: An Alternative to Traditional Constant Rate Tests. *Ground Water Monitoring and Remediation*, Vol.18, no.2, p. 76-78.

Rice Jr., J.B., and McCalpin, J.P., “Spatial and Temporal Landslide Distribution Analyzed by Photogeologic Mapping and Relative-Age Dating Techniques, Salt River Range, Wyoming”, 1986. *Geological Society of America Abstracts with Programs, Rocky Mountain Section*, Vol. 18, No. 5, P. 405.

Rice Jr., J.B., and McCalpin, J.P. “Post-Glacial Landsliding Chronology of the Salt River Range, Western Wyoming”, 1986. *Abstracts of the 9th Biennial Meeting, American Quaternary Association, University of Illinois*, p. 96.

Additional Information

Certified Professional Geologist in the state of Virginia (CPG # 763).

Have taught introductory geology labs and have given several introductory geology lectures at the university level, and have provided technical training seminars at several environmental consulting firms. Have provided informal reviews of several United States Geological Survey (USGS) technical papers on environmental hydrology.